Excavation Permit. Any discrepancy between the substantive requirements of this permit and the Technical Specifications will immediately be brought to the attention of the Engineer.

Contractor actions that result in potential violations of the substantive permit requirements are grounds for a stop work order from the Owner or Engineer. To the extent the Contractor's actions result in a violation of the substantive requirements of a permit, the Contractor will be liable for fines and damages assessed against the Owner, if any.

** END OF SECTION **

SECTION 01510 TEMPORARY UTILITIES

No utilities will be available to the Contractor at the site. The Contractor will furnish electricity and water as necessary to complete the scope of work. All temporary wiring and services necessary to provide utilities will meet applicable code and permit requirements. The Contractor will install lighting if the Work is performed under conditions deficient for inspection and safe work.

** END OF SECTION **

SECTION 01550 SITE ACCESS AND TRAFFIC CONTROL

The Contractor will make the necessary arrangements for delivery of equipment to the site and determine the condition and availability of public roads, access, and rights-of-way, and of restrictions, bridge load limits, and other limitations affecting transportation and ingress and egress from the site. In addition, the Contractor will prevent dust nuisance, impassable conditions, and dirt accumulation on public streets used for access.

The Contractor will coordinate on-site traffic with the site manager. The Contractor will maintain access for site activities and the site fire hydrants.

** END OF SECTION **

SECTION 01561 STOCKPILING

The Contractor will maintain separate stockpiles for the material excavated at depths of less than 25 feet and the soil excavated at depths between 25 and 29 feet bgs. Dust will be controlled. Soil stockpiles will be constructed by the Contractor. The locations of the stockpiles will be approved by the Engineer and the site manager.

Stockpile liners will be used and constructed in accordance with Section 02111, EXCAVATION OF SOIL. At the end of each workday, the stockpiles will be covered with 6 mils polyethylene plastic sheeting. Soil stockpile covers will be secured so that they cannot be blown off by wind, and will not allow precipitation to come in contact with excavated material. The Contractor will take measures to prevent run-on and runoff.

** END OF SECTION **

SECTION 01570 SPECIAL CONTROLS

Dust Control. During the Work, the Contractor will sprinkle at frequent intervals areas where operations would otherwise create a dust nuisance, and sweep paved roads periodically and at the Engineer's request. Watering provisions must be in place to prevent dust from becoming airborne. Stockpiles must be maintained so as to prevent dust from becoming airborne. Water added for dust control must be sufficient to minimize dust, but not to the point of mobilizing surface soil. All open-bodied trucks transporting material from the site must be covered to prevent dust from blowing from the trucks. During the Work, all public streets adjacent to the site that will be used by construction traffic will be kept clean of all materials resulting from the Work. The Contractor will be responsible for all damage resulting from dust produced by Contractor operations.

Erosion Control: The Contractor will provide temporary erosion control work shown in the Design Drawing and specified in Section 2630 EROSION AND SEDIMENTATION CONTROLS. This work is intended to provide prevention, control, and abatement of water pollution/erosion within the limits of the project. The area of excavation, stockpiling, and soil management will be limited commensurate with the Contractor's capability and progress in keeping the erosion control measures current.

Noise Control: The Contractor will comply with WISHA-allowable construction noise, and will equip internal combustion engines with effective mufflers.

Decontamination: All personnel and equipment must be decontaminated before leaving the Contractor-designated contamination reduction zones.

Sanitary Provisions: The Contractor will provide and maintain neat and sanitary accommodations for the use of Contractor employees and the Engineer, as may be necessary to comply with the requirements and regulations of the agencies or organizations having jurisdiction over sanitary and health conditions and of other bodies or offices having jurisdiction thereover.

** END OF SECTION **

SECTION 01650 TRUCK LOADING

The Contractor will load all trucks in a manner that prevents spilling or tracking of contaminated soil. A sacrificial geotextile will be used in the truck loading area to prevent surface soil contamination from spillage. The Contractor will remove the loose soil that falls outside the truck during loading, before the truck leaves the loading area.

Truck loading will be adjacent to stockpiles or excavations, just outside the Contractor-designated exclusion zones. The Contractor will place any material that collects on the barrier geotextile in the loading area back into the truck or respective excavation.

No free liquids will be placed in trucks for transportation off site.

** END OF SECTION **

SECTION 01760 PROTECTION OF EXISTING FACILITIES

This Section concerns protection of those facilities within or nearby the work areas that are to remain in place after completion of the project. The Contractor will adhere to all requirements of the Standard Specifications and these requirements. Excavation activities will involve the temporary relocation of overhead and buried power and telephone lines and a power pole that are located in the area of excavation. The Contractor will take all measures for the coordination and protection of the utilities so that site operations are not impacted.

No excavation will be performed until site utilities have been field-located by a private utility locating company. The Contractor will also notify Utilities Underground Location Center at 800-424-5555. The Contractor will take the necessary precautions to ensure no damage occurs to existing structures and utilities. Damage to existing structures and utilities resulting from the Contractor's operations will be repaired at no additional cost to the Owner. Utilities encountered that were not previously shown or otherwise located will not be disturbed without approval from the Engineer.

Before beginning the Work, the location, dimensions, and elevations of nearby facilities that are to remain will be recorded by the Contractor. Photographs will be taken to record any prior damage to structures. A listing of any existing damage, along with the dimensional record and photographs, will be given to the Engineer prior to beginning work. The Contractor will provide for the safety, stability, and integrity of facilities that are to remain in place, and will promptly notify the Engineer if any damage becomes evident. The Contractor will be responsible for any and all damages resulting from actions that damage or otherwise diminish the functionality and/or integrity of the facilities that are to remain in place.

The Contractor will immediately repair any damage caused by the Work, and will restore the facilities to the condition existing prior to the start of work.

** END OF SECTION **

DIVISION 2—SITE WORK

SECTION 02111 EXCAVATION OF SOIL

The work will consist of excavation and removal of approximately 250 cubic yards of dinoseb-impacted soil, and the excavation, temporary storage, and reutilization as backfill of approximately 3,000 cubic yards of impacted and "clean" soil in the former wash pad area, as shown on the Design Drawing. The soil to be excavated and removed for disposal occurs within the zone of groundwater fluctuation, approximately 25 to 29 feet bgs, as shown on the Design

Drawing. In order to remove this soil, the Contractor will excavate and stockpile the soils ranging from 0 to 25 feet bgs. The two soil zones will be segregated in stockpiles to prevent any cross contamination. The Contractor will be aware that the limits of excavation and estimated depths are estimates and may change during the excavation activities. Deviations from the estimated limits may be made only with prior approval from the Engineer.

Site operations should be minimally impacted during the Work activities. The Contractor will clearly mark the work areas and confine their operations to within those areas. The site manager will approve the designated work areas.

Execution

Prior to any excavation, the Contractor will locate all utilities within the excavation limits as described in Section 02760 PROTECTION OF EXISTING FACILITIES. Stockpiling areas will be established in accordance with Section 1561 STOCKPLING and this Section.

Within the limits of excavation, soil will be excavated to the minimum depth and extent shown on the drawing and not more than 0.5 feet beyond the depth and extent shown unless directed by the Engineer. Excavation will be performed in a manner that will limit spills and the potential for soil to be mixed with uncontaminated material. Excavation sequencing will follow the Project Plan and will meet the intent as shown in the Design Drawing.

Throughout the excavation, the Contractor will monitor through visual observation the structural integrity of the excavation sides. If any sloughing, raveling, or potential breaching of the excavation is identified, and may potentially cause harm to any existing structure or to an off-site property, the Contractor will immediately notify the Engineer.

Prior to off-site hauling of the soil, the Contractor will segregate and manage the soil to meet the requirements stated within Section 02120, DISPOSAL AND OFF-SITE TRANSPORTATION. The Contractor will take all necessary precautions to protect facilities that will remain. In the event facilities impede the work activities, the Contractor may temporarily remove the facilities with the Engineer's approval and replace in a condition as good or better. The Contractor will bear all costs associated with the replacement of the utility, including all labor, materials, and testing, as required by the utility company. Any sheeting, shoring, bracing, and sloping will be conducted in accordance with Section 02160, SHEETING, SHORING AND BRACING.

Water will be diverted to prevent entry into the excavation. Any dewatering activities will be conducted in accordance with Section 02240 DEWATERING. Dewatering will be used, as necessary, to assure adequate access and a safe excavation, and to ensure that compaction requirements can be met.

Sampling and Monitoring

The Engineer will be present to monitor the removal of soil. At the completion of the soil excavation, the Engineer will conduct sampling procedures. The Contractor will use excavation equipment to assist in the collection of soil samples at the direction of the Engineer. Secondary

excavation and secondary sampling may be required dependent on the soil sample analytical results.

Stockpile

Stockpile areas will meet the requirements of Section 01561 STOCKPILING, and this Section. Stockpiles will be lined with 20 mils geomembrane or two layers of 6 mil polyethylene plastic sheeting. The ground surface on which the liner is to be placed will be free of rocks greater than 0.5 inches in diameter and any other object that could damage the geomembrane.

At the end of each workday, the stockpiles will be covered with 6 mil polyethylene plastic sheeting. Soil stockpile covers will be secured so that they cannot be blown off by wind, and will not allow precipitation to come in contact with excavation material.

** END OF SECTION **

SECTION 02120 DISPOSAL AND OFF-SITE TRANSPORTATION

Work described within this Section includes the hauling and disposal of the dinoseb-impacted soil, as shown on the Design Drawing.

Dinoseb-Impacted Material

The Contractor will haul the material to Rabanco Regional Landfill for disposal (see Section 01025 MEASUREMENT AND PAYMENT). Trucks and drivers will have the appropriate licenses and certifications required by the State of Washington to transport the soil. The Contractor will be responsible for ensuring that trucks loaded for off-site disposal are within acceptable weight limits. The trucks will be covered before they leave the loading area.

Uncontaminated Material

Disposal of any uncontaminated material that the Contractor may encounter during excavation (e.g., debris, wood scrap) will be loaded and hauled by the Contactor to a permitted facility, approved by the Owner.

** END OF SECTION **

SECTION 02160 SHEETING, SHORING AND BRACING

This Section specifies requirements for sheeting, shoring and bracing of open excavations greater than 4 feet in depth. Where sheet piling, shoring, sheeting, bracing, or other supports are necessary, they will be furnished, placed, maintained and, except as shown or specified otherwise, removed by the Contractor.

All sheeting, shoring, and bracing will be conducted in accordance with the Standard Specifications, 2-09 STRUCTURAL EXCAVATION. The Contractor will submit working drawings and calculations showing the proposed method of shoring. The Contractor will not begin construction of structural shoring or cofferdams, nor begin excavation operations, until approval of the structural shoring submittal has been given by the Engineer.

Contractor will be aware that the excavation for the former wash pad area will not exceed the fence line located along the north edge of the limits of excavation. Open excavation and benching of the remaining boundaries of the excavation are permitted with note that the Contractor is fully responsible for coordination with the Engineer and the site manager.

SECTION 02240 DEWATERING

Surface water will be diverted to prevent entry into the excavation. No dewatering will be performed without prior approval of the Engineer.

** END OF SECTION **

SECTION 02315 BACKFILLING

The Work involves the backfilling of the soil excavation areas and as directed by the Engineer. Under no circumstances will backfilling commence until the Engineer confirms that the cleanup levels have been met and additional excavation is not required, if appropriate. The Contractor will verify with the Engineer before backfilling.

Only clean, imported backfill material will be used for the backfill in the 25- to 29-foot zone as depicted on the Design Drawing. No spoils can be backfilled within this zone. After completion of the zone between 25 to 29 feet bgs, a geotextile fabric will be placed on top of the clean fill. The geotextile fabric will meet the requirements of Table 3, Geotextile for separation or soil stabilization, in Section 9-33 CONSTRUCTION GEOTEXTILE. The fabric will be spread uniformly over the clean fill surface, and each sheet will be overlapped a minimum of 24 inches.

The 0- to 25-foot zone will be backfilled with spoils that meet the requirements of Standard Specification Section 9-03.14(3) COMMON BORROW, and were previously excavated from this zone. Imported backfill may be needed to supplement the excavated material.

Imported backfill material will be clean, imported structural fill material as defined by Standard Specification Section 9-03.14(2) SELECT BORROW. The Contractor will be responsible for submitting a particle size analysis of Contractor-supplied fill for approval by the Engineer before bringing any fill on site. Imported fill will be certified by the Contractor as meeting the definition of "clean soil" as provided in WAC 173-350-100.

Compaction of fill material and associated control testing will be consistent with the requirements of Standard Specification Sections 2-03.3(14)C Method B and 2-03.3(14)D. Per Standard Specification Section 2-03.3(14)C Method B, the Contractor will compact the top 2 feet

of each backfilled excavation to 95 percent of the maximum dry density. Maximum dry density will be determined by the Contractor, using ASTM Test Designation (D) 1557-00. The Contractor will compact material below the 2-foot level to 90 percent of the maximum density as determined by ASTM D 1557-00.

The Contractor will be responsible for providing field testing to confirm that in-place compaction requirements have been met. The results of all field and any supporting laboratory testing will be provided to the Engineer after each excavation is backfilled. The Engineer will perform random testing during backfilling to verify compaction control.

The Owner may test the backfill material to confirm that it conforms to specification. If the backfill material fails, the Contractor will be responsible for removal and proper disposal of the off-specification material and its replacement, at no cost to the Owner.

**** END OF SECTION ****

SECTION 02630 EROSION AND SEDIMENTATION CONTROLS

The Contractor is solely responsible for implementing appropriate erosion prevention and sediment control, and will do so prior to commencing work. The erosion control measures shown on the Design Drawing are advisory and are the minimum required. The Contractor will apply additional measures as appropriate based on actual field conditions encountered, commensurate with weather requirements and construction impacts.

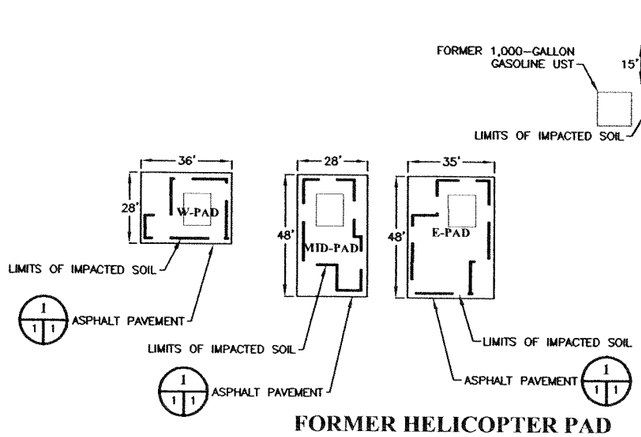
**** END OF SECTION ****

SECTION 02740 ASPHALT CONCRETE PAVEMENT

The Asphalt Concrete Pavement Class "A" (ACP A) will comply with the Standard Specifications. The asphalt pavement will be installed over the area of soil excavation, and at the designated areas on the Design Drawing. The total area of pavement is approximately 10,000 square feet. This area may increase depending on the actual extent of the soil excavation.

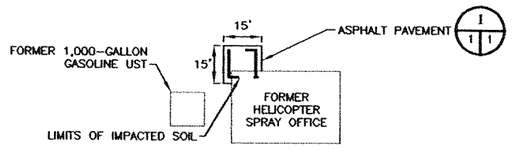
**** END OF SECTION ****

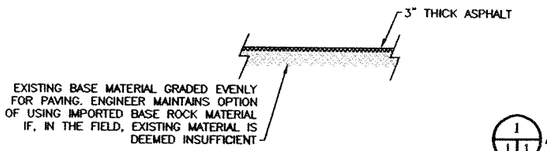
Design Drawing



FORMER HELICOPTER PAD AREA

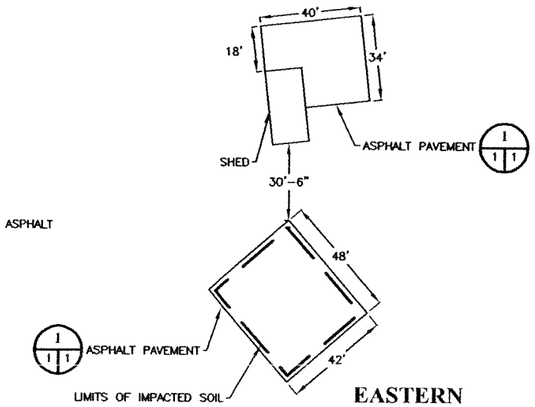
1" = 60'





TYPICAL ASPHALT PAVEMENT DETAIL

1" = 10'



EASTERN AREA

1" = 60'

GENERAL NOTES:

1) THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL CALL THE LOCAL UTILITY LOCATE NUMBER A MINIMUM OF 48-HOURS PRIOR TO THE START OF CONSTRUCTION.

2) IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ANY APPLICABLE PERMITS, LICENSES AND CERTIFICATES RELATIVE TO THE TRADES TO COMPLETE THE PROJECT AND THE USE OF SUCH WORK WHEN COMPLETED.

3) ALL EROSION CONTROL DEVICES SHALL BE CONSTRUCTED IN ACCORDANCE WITH FRANKLIN COUNTY STANDARDS.

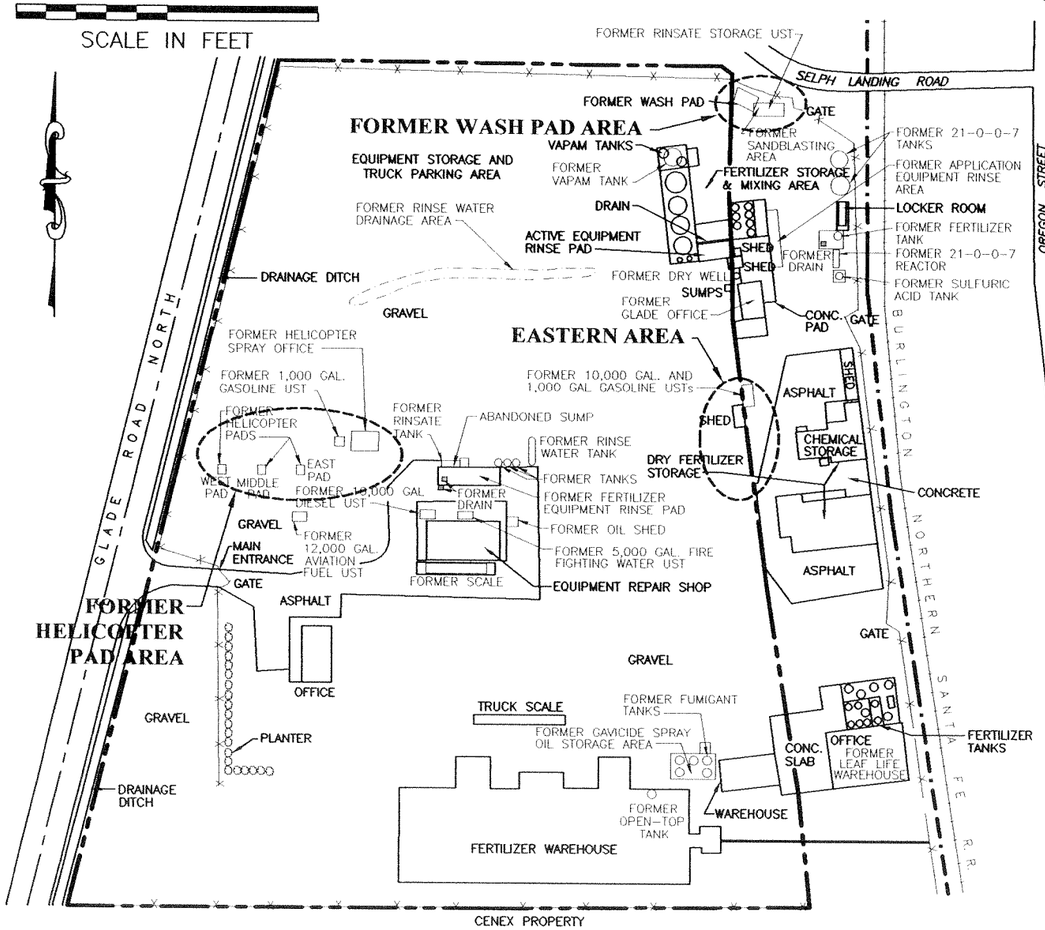
4) NO SITE SURVEY WAS CONDUCTED FOR THESE DRAWINGS AND ALL INFORMATION SHOWN WAS PROVIDED USING AERIAL PHOTOGRAPHY AND PREVIOUS SITE INVESTIGATIONS. THE CONTRACTOR IS TO USE CAUTION WHILE CONDUCTING THE WORK. THE ENGINEER SHALL MAKE THE DECISIONS ON ANY POTENTIAL CONFLICTS AND SHALL DETERMINE THE LIMITS OF EXCAVATION.

5) EXCAVATION SHALL TAKE PLACE ONLY WITHIN THE FORMER WASH PAD AREA. WORK IN OTHER AREAS SHALL INVOLVE ONLY THE PLACEMENT OF ASPHALT PAVEMENT UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

GRADING CALCULATIONS:	
ESTIMATED DEPTH	29 FT BGS
EXCAVATED & REMOVED	250 CY
FILL	250 CY
LATERAL WIDTH	26-35 FT
LATERAL LENGTH	49 FT

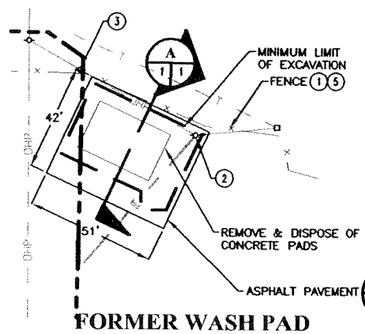
0 200 400

SCALE IN FEET



LEGEND:

- Railroad Tracks
- Leased Property Boundary
- Property Line
- Existing Fence
- Buried Telephone
- Buried Electrical
- Over Head Power
- Utility Pole

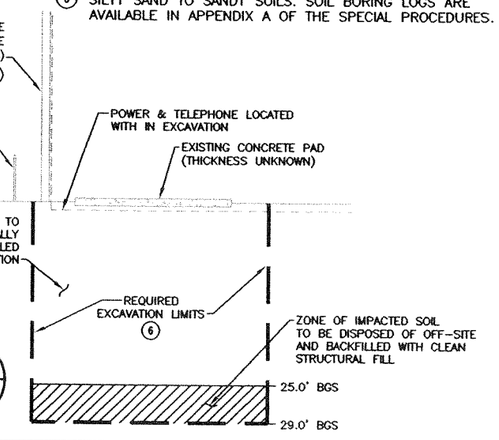


FORMER WASH PAD AREA

1" = 60'

NOTES:

1. REMOVE & REPLACE FENCE AS NEEDED TO ACCOMMODATE WORK.
2. POWER & TELEPHONE POLE LOCATED WITHIN LIMITS OF EXCAVATION. CONTRACTOR SHALL WORK WITH OWNER IN TEMPORARY RELOCATION AND PROVIDE A NEW PERMANENT PLACEMENT OF POLE.
3. TO BE PROTECTED DURING WORK.
4. FINAL ASPHALT PAVEMENT LIMITS SHALL BE FIELD DETERMINED BY ENGINEER.
5. LIMITS OF EXCAVATION SHALL NOT EXCEED FENCE LINE. CONTRACTOR SHALL SUBMIT WORKING DRAWINGS AND CALCULATIONS SHOWING THE PROPOSED METHOD OF SHORING AS DESCRIBED IN THE SPECIFICATIONS.
6. SOILS WITHIN THE EXCAVATION LIMIT CONSIST MAINLY OF SILTY SAND TO SANDY SOILS. SOIL BORING LOGS ARE AVAILABLE IN APPENDIX A OF THE SPECIAL PROCEDURES.



SECTION

A

1" = 20'

STEVEN P. TAYLOR
STATE OF WASHINGTON
34036
REGISTERED
PROFESSIONAL ENGINEER

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Portland: (971) 544-2139

MAUL FOSTER ALONGI

DATE 12/05/03
DWN. AJY
APPR.
REVIS.
PROJECT NO. 0030.01.02

Figure 1
GLADE ROAD FACILITY
PASCO, WASHINGTON

SITE PLAN & DETAILS